## Devugant Decemb

## **Derwent Record**

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P Derwent Title:

Hydrophilising agent for synthetic fibres, esp. acrylonitrile - contains polymeric pyrrolidinium salt, ethoxylated betaine cpd and ethoxylated

sulphobetaine sulphinate or sulphonate

**②**Original Title:

DE4316666C1: Hydrophilierungsmittel

**P**Assignee:

MAERKISCHE FASER PREMNITZ AG Non-standard

company

BALLSCHUH D Individual ENGELBRECHT L Individual

OHME R Individual SEIBT H Individual

BALLSCHUH D; ELLMANN R; ENGELBRECHT L; OHME

R; SCHMIDT B; SCHOENING K; SEIBT H;

Accession/

FIPC Code:

Update:

1995-007368 / 199502

**D06M 15/356**; C04B 16/06; D06M 13/244; D06M 15/53;

P Derwent Classes:

A87; E16; F06; L02; A14;

PManual Codes:

A04-B(Others), A04-D02B(Fibres, textiles), A08-S02 (Solvents; swelling agents), A08-S08(Absorption agents; repellance agents), A10-E01(General), A12-S05S(Antistatic, surfactant, softener or lubricant treatments), E10-A09B8(no ring(s) present), E10-A22D(No Aromatic ring - with acid (derivative)), F01-D02(Acrylic and modacrylic fibres), F03-D04(Fabric structures designed for reinforcement of solid materials), L02-D05(Reinforced and pre-stressed concretes)

PDerwent Abstract:

(<u>DE431666C</u>) A hydrophilising agent (I) for the treatment of synthetic fibres, esp. reinforcing and process fibres based on polyacrylonitrile (PAN) for use in hydraulic binders, comprises (A) 4-12 wt.% polymeric pyrrolidinium salt, (B) 4-13 wt.% ethoxylated alkyl- or dialkyl-ammonium betaine and (C) 4-7 wt.% alkyl-bis-(polyoxyethylene)-ammonium-sulphobetaine sulphinate and/or sulphonate as main components in the mole ratio 1:1:1, together with (D) 1-5 wt.% non-ionic surfactant, (E) 5-10 wt.% low-mol. wt. alcohol or diol, (F) 0.05-2 wt.% foam inhibitor and (G)

0.05-2 wt.% auxiliary film former, made up to 100 wt.% with water. **Use** - Used esp. for the modification of PAN fibres for use as reinforcement in

building materials, friction linings, etc.

Advantage - Enables the hydrophilic properties of synthetic fibre to be modified independently of the intended matrix (cement, etc.). The hydrophilising film is deposited from dil. aq. soln. as a complex which can then form a silicate film which also protects the fibre surface from the alkali in the binder.

Dwg.0/0

**P**Family:

PDF Patent

Pub. Date Derwent Update Pages Language IPC Code

DE4316666C1 \* 1994-12-08

199502

6 German

D06M 15/356

Hydrophilising agent for synthetic fibres, esp. acrylonitrile - contains polymeric pyrrolidi.. Page 2 of 2

Local appls.: <u>DE1993004316666</u> Filed:1993-05-13 (93DE-4316666)

**§INPADOC** Legal Status: Show legal status actions

First Claim:

Show all claims 1. Hydrophilierungsmittel zur Ausrüstung von Synthesefasern für technische Einsatzgebiete, insbesondere von Armierungs- und Prozeßfasern auf

Acrylnitrilbasis, für den Einsatz in hydraulischen Bindern, bestehend aus

4 bis 12 Gew.-% eines polymeren Pyrrolidiniumsalzes,

4 bis 13 Gew.-% eines oxethylierten Alkyl- oder Dialkylammoniumbetains sowie 4 bis 7 Gew.-% eines Alkyl-bis(polyoxyethylen)-ammoniumsulfobetain-sulfinats

und/oder -sulfobetain-sulfonats als Hauptkomponenten und

1 bis 5 Gew.-% eines nichtionischen Tensids,

5 bis 10 Gew.-% eines niedermolekularen Alkohols oder Diols,

0.05 bis 2 Gew.-% eines Schauminhibitors,

0,05 bis 2 Gew.-% eines unterstützenden Filmbildners und Ausgleich auf 100 Gew.-

% mit Wasser, wobei die Hauptkomponenten im Molverhältnis 1 : 1 : 1

vorliegen.

Priority Number:

<b>Application Number</b>	Filed	Original Title
DE1993004316666	1993-05-13	HYDROPHILIERUNGSMITTEL

<sup>♀</sup>Chemica

Show chemical indexing codes

Indexing Codes:

**8** Markush Show Markush numbers

Compound Numbers:

PExtended Show extended polymer inde

Polymer Index:

Related Accessions:

Accession Number	Туре	Derwent Update	Derwent Title
C1995-002685	C		
1 item found			

HYDROPHILIC AGENT SYNTHETIC FIBRE ACRYLONITRILE CONTAIN

POLYMERISE PYRROLIDINIUM SALT ETHOXYLATION BETAINE COMPOUND

ETHOXYLATION SULPHINATE SULPHONATE

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